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CLAIMS

A method of access control in a communication network comprising the stone of

What Is Claimed Is:

		11 method of decess control in a communication network comprising the steps of.
		determining a load status of the network between a call originating node and a call
termin		ating node;
		determining whether the load status permits a specified quality of service; and

determining whether the load status permits a specified quality of service; and if the specified quality of service is permitted, establishing a transport connection between the call originating node and the call terminating node.

- A method of access control in a network comprising the steps of: sending a probe packet through the network from a first node to at least one other node;
- updating a portion of the probe packet at each node based on the load status of the node;

determining whether the load status permits a specified quality of service; and if the specified quality of service is permitted, establishing a transport connection between the at least two nodes in the network

- The method of claim 2, wherein the step of sending a probe packet through the network is performed continuously.
- The method of claim 2, wherein the step of sending a probe packet through the
 network is performed at pre-determined times.
 - The method of claim 2, wherein the step of sending a probe packet through the network is performed in response to a network event.
 - The method of claim 2, wherein the step of sending a probe packet is performed for each of a plurality of traffic classes.

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An access control system in a network comprising:

at least one load measurement proxy, which probes the network to determine the congestion state of the network;

a bandwidth broker server in communication with the at least one load measurement proxy and correlating the determined congestion state information; and

a bandwidth broker client in communication with the bandwidth broker server and an application, wherein the bandwidth broker client queries the bandwidth broker server based on requirements of the application.

- The access control system of claim 7, wherein the requirements of the application include at least two node addresses and a quality of service.
- 9. The access control system of claim 7, wherein the requirements of the application include at least one of an application traffic class, a peak bit rate, a packet delay, a delay variation, a packet loss, and a guaranteed bit rate.
- 10. The access control system of claim 7, wherein the load measurement proxy continuously probes the network.
- 11. The access control system of claim 7, wherein the load measurement proxy probes the network at predefined intervals.
- The access control system of claim 7, wherein the load measurement proxy probes the network in response to a network event.
- 13. The access control system of claim 7, wherein the load measurement proxy
- 2 determines the congestion state of the network for each of a plurality of traffic classes.
- 1 14. An access control system in a network comprising:
 - at least one load measurement proxy, which probes the network to determine the congestion state of the network;

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a bandwidth broker server in communication with the at least one load measurement proxy and correlating the determined congestion state information; and

a plurality of bandwidth broker clients in communication with the bandwidth broker server and a respective one of a plurality of applications, wherein each of the plurality of bandwidth broker clients queries the bandwidth broker server based on requirements of the respective one of a plurality of applications.